

What is claimed is:

1 1. A method, comprising:
2 defining a camouflage pattern using a user interface
3 associated with an automated computer and producing an output
4 file indicative thereof; and
5 using said output file to control a laser to form said
6 camouflage pattern on a textile material.

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10 2. A method as in claim 1, wherein said defining comprises
11 defining a unique output file which is unique for a single
12 application to the textile material.

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15 3. A method as in claim 1, wherein said defining comprises
16 forming an image having a plurality of different portions
17 therein, associating each said portion with a power output of the
18 laser, to thereby produce power outputs from said lasers based on
19 said portions.

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21 4. A method as in claim 3, wherein each said portion is a
22 specified color.

1 5. A method as in claim 4, wherein said camouflage pattern
2 includes a plurality of random shapes and colors.

1 6. A method as in claim 3, wherein each laser power output
2 is a duty cycle output.

1 7. A method as in claim 3, wherein each laser power output
2 is a specified level of energy density per unit time.

1 8. A method as in claim 1, wherein said textile material
2 is denim material.

1 9. A method as in claim 3, wherein the laser is controlled
2 to scan in lines, and at least one of said lines has a varying
3 power within the line.

1 10. A method as in claim 1, wherein said defining comprises
2 using a random number generator to form the shapes.

1 11. A method as in claim 1, wherein said defining comprises
2 drawing a pattern in a plurality of different colors, and
3 assigning each color of the pattern to a specified laser power.

1 12. A method as in claim 11, wherein said assigning
2 comprises determining a minimum laser power which will not change
3 a look of the material, and determining a maximum laser power
4 which causes a maximum amount of change to the look of the
5 material, and defining intermediate laser powers between said
6 maximum and minimum laser power.

1 13. A method, comprising:
2 defining a unique shape and producing an output file
3 indicative thereof, said unique shape being unique to a single
4 output file; and
5 using said output file to control a laser to produce said
6 unique shape on a textile material to produce a unique textile
7 material.

1 14. A method as in claim 13, wherein said unique shape
2 includes a plurality of areas, each of the plurality of areas
3 being defined by a different color, and each color associated
4 with a different laser power.

1 15. A method as in claim 14, wherein said laser power is an
2 energy density per unit time.

1 23. A method as in claim 13, wherein said shape define
2 irregularly positioned polka dots.

1 24. A method as in claim 13, wherein said shapes define a
2 regular strips.

1 25. A method as in claim 13, wherein said defining a unique
2 shape comprises using a random number generator to define said
3 unique shape.

1 26. A method as in claim 13, further comprising defining a
2 minimum output power which produces minimum color change to the
3 garment at a minimum power, defining a maximum power level as a
4 power level which causes a maximum amount of color change to the
5 garment, and defining a plurality of intermediate power levels
6 between said minimum and maximum power levels.

1 27. A method as in claim 26, further comprising assigning
2 each of said power levels to a color on the user interface.

1 28. A method as in claim 27, wherein said unique shape is a
2 camouflage pattern with a plurality of rounded edges.

1 29. A method as in claim 13, wherein said textile material
2 is denim.

1 30. A method as in claim 13, wherein said laser is used to
2 form said image on denim jeans.

1 31. A method as in claim 27, wherein said unique shape is a
2 plaid pattern.

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